

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L38	0	345/596.ccls. and (threshold near7 (red and green and blue))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 14:32
L37	0	345/596.ccls. and (threshold near7 RGB)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 14:32
L36	44	345/596.ccls. and ((maximum or max) and (minimum or min))	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/04/26 14:32
S78	0	345/596.ccls. and (threshold near7 RGB)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 14:31
S69	40	345/596.ccls. and ((maximum or max) and (minimum or min))	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/04/26 14:31
S89	56	382/172.ccls. and (input near3 signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:36
L35	57	382/172.ccls. and (input near3 signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:36
S80	101	345/597.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:35
S59	0	S58 and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and crhominance)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:35
S53	0	S52 and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and crhominance)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:35

S46	0	S44 and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and chrominance)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:35
L34	104	345/597.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:35
L33	0	348/222.1.ccls. and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and crhominance)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:35
L32	0	382/162.ccls. and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and crhominance)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:35
L31	0	382/170.ccls. and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and chrominance)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:35
L30	94	L26 and ("345"/\$.ccls. or "382"/\$.ccls. or "348"/\$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:34
S43	91	S41 and ("345"/\$.ccls. or "382"/\$.ccls. or "348"/\$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:33
S42	166	((choos\$3 or identif\$5 or determin\$5) near3 (color adj3 space)) near7 input	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:33
S41	189	((choos\$3 or identif\$5 or determin\$5) near3 (color adj3 space)) near10 input	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:33
L29	2	L28 and ("345"/\$.ccls. or "382"/\$.ccls. or "348"/\$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:33

L28	2	((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 ((CIELAB or YCbCr or HSV) and space)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:33
L27	171	((choos\$3 or identif\$5 or determin\$5) near3 (color adj3 space)) near7 input	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:33
L26	195	((choos\$3 or identif\$5 or determin\$5) near3 (color adj3 space)) near10 input	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:33
L25	187	345/604.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:31
S31	175	345/604.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:30
S30	17	345/595.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:30
S26	2	((S21 or S22 or S23 or S24) and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 ((CIELAB or YCbCr or HSV) and space)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:30
S25	0	((S21 or S22 or S23 or S24) and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and crhominance)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:30
L24	18	345/595.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:30
L23	2	((L18 or L19 or L20 or L21) and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 ((CIELAB or YCbCr or HSV) and space)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:30

L22	0	(L18 or L19 or L20 or L21) and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and crhominance)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:30
L21	106	345/590.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:30
L20	176	345/592.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:30
L19	120	345/591.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:30
L18	209	345/593.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:30
L17	209	345/593.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:12
L16	176	345/592.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:12
L15	120	345/591.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:12
L14	106	345/590.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:12
S16	98	345/590.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 13:11

L13	163	((determin\$5 or comput\$5 or calcul\$5 or identify\$3) same (color adj3 space)) same (((high or maximum) and (low or minimum)) near7 (component or signal or value))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:46
L12	75	345/589.ccls. and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (color adj3 space))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:44
S17	68	345/589.ccls. and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (color adj3 space))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:40
S15	2	345/589.ccls. and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 ((CIELAB or YCbCr or HSV))) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:40
S13	1	345/589.ccls. and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and space)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:40
S12	1	345/589.ccls. and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and chrominance)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:40
L11	106	345/590.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:40
L10	2	345/589.ccls. and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 ((CIELAB or YCbCr or HSV))) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:40
L9	1	345/589.ccls. and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and space)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:40
S14	0	345/589.ccls. and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 ((CIELAB or YCbCr or HSV) and space)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:39

S11	0	345/589.ccls. and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and crhominance)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:39
L8	0	345/589.ccls. and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 ((CIELAB or YCbCr or HSV) and space)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:39
L7	1	345/589.ccls. and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and chrominance)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:39
S5	5	((identify\$3) near7 (color adj3 space)) near7 (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:38
L5	6	((identify\$3) near7 (color adj3 space)) near7 (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:38
S4	115	((determin\$5 or comput\$5 or calcul\$5) near7 (color adj3 space)) near7 (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:37
L4	122	((determin\$5 or comput\$5 or calcul\$5) near7 (color adj3 space)) near7 (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:37
L3	46	"345"/\$.ccls. and ((determin\$5 or comput\$5 or calcul\$5) near7 (color adj3 space)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:36
S3	41	"345"/\$.ccls. and ((determin\$5 or comput\$5 or calcul\$5) near7 (color adj3 space)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:35
S2	314	((determin\$5 or comput\$5 or calcul\$5) near7 (color adj3 space)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:34

S1	16	bala-raja.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/26 09:34
L2	328	((determin\$5 or comput\$5 or calcul\$5) near7 (color adj3 space)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/04/26 09:34
L1	22	bala-raja.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/04/26 09:34
S97	74	fuji adj xerox.as. and ("color space" and threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/15 10:11
S96	418	fuji adj xerox.as. and ("color space")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/15 10:11
S92	12	"345"/\$.ccls. and (luminance near5 chrominance) same ((determin\$4 or identif\$4 or decipher\$4 or calculat\$4) near7 space)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/15 10:09
S91	4	"345"/\$.ccls. and (luminance-chrominance) same ((determin\$4 or identif\$4 or decipher\$4 or calculat\$4) near7 space)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/15 09:23
S90	6	"345"/\$.ccls. and (((extract\$4 or determin\$4) near7 (high and low)) same (RGB or (red or green or blue) or CIELAB or YUV or YCBCR))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/15 09:21
S87	187	382/172.ccls.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/02/15 09:14
S86	33	345/589.ccls. and ((component or signal) near5 threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/15 08:46

S85	2	345/589.ccls. and (test\$3 near3 (signal or input or pixel)) same (black and white)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/15 08:45
S84	1	345/589.ccls. and (test\$3 near3 component) same (black and white)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/15 08:45
S83	2	345/589.ccls. and (test\$3 near3 component) same (RGB or (red and green and blue))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/15 08:44
S82	76	"345"/\$.ccls. and (threshold near7 (RGB or (red and green and blue)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 15:21
S81	1	345/597.ccls. and (threshold near7 (red or green or blue))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 15:21
S79	1	345/596.ccls. and (threshold near7 (red or green or blue))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 15:17
S77	6	((detect\$4) near5 ((black and white) near3 image)) same RGB	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 15:16
S76	2	"5608461".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 15:06
S75	122	((indentif\$5 or determin\$5) near3 (color adj3 gamut)) and (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 14:55
S74	0	(decod\$3 near3 (color adj3 gamut))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 14:45



S73	50	((identif\$5 or determin\$5) near3 (color adj3 palette)) and (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 14:45
S72	36	(decod\$3 near3 (color adj3 palette))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 14:45
S37	135	(decod\$3 near3 (color adj3 space))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 14:40
S71	13	345/596.ccls. and (((maximum or max) and (minimum or min)) and RGB)	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/02/10 14:32
S70	0	345/596.ccls. and ((maximum or max) and (minimum or min)) same RGB	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/02/10 14:31
S68	4	(threshold near5 (RGB)) same histogram	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/02/10 14:30
S67	0	345/589.ccls. and (threshold near5 (RGB)) same histogram	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/02/10 14:17
S66	0	345/589.ccls. and (compar\$5 near5 (RGB)) same histogram	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/02/10 14:16
S64	27	((black adj3 white) near3 (detect\$5 or identif\$5 or determin\$5)) near5 (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 13:54
S62	1	S41 and S58	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 13:52
S61	0	S58 and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and space)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 12:12
S60	0	S58 and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 ((CIELAB or YCbCr or HSV))) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 12:12

S56	24	S41 and S52	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 12:12
S55	7	S52 and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and space)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 12:12
S54	3	S52 and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 ((CIELAB or YCbCr or HSV))) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 12:12
S58	763	348/222.1.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 12:11
S48	1	S44 and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and space)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 12:07
S52	922	382/162.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/10 12:06
S51	4	("5608461"   "6034735"   "6271891"   "6453109").PN. OR ("6744917").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/10 12:06
S49	0	S44 and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 ((CIELAB or YCbCr or HSV))) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 12:06
S45	0	S44 and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and rhominance)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 12:06
S50	63	382/170.ccls. and (color adj3 space)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 10:57
S44	382	382/170.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 10:56

S29	2	(S21 or S22 or S23 or S24) and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 ((CIELAB or YCbCr or HSV))) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 10:56
S47	0	S44 and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 ((CIELAB or YCbCr or HSV) and space)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 10:55
S28	2	(S21 or S22 or S23 or S24) and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and space)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 10:55
S27	0	(S21 or S22 or S23 or S24) and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and chrominance)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 10:55
S40	0	(decipher\$3 near7 (color adj3 space))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 10:29
S39	0	(decipher\$3 near3 (color adj3 space))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 10:29
S38	0	(decipher\$3 near3 (color adj3 space)) near7 input	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 10:29
S36	2	(S31) and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 ((CIELAB or YCbCr or HSV))) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 08:54
S35	2	(S31) and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and space)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 08:54
S34	1	(S31) and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 ((CIELAB or YCbCr or HSV) and space)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 08:54

S33	0	(S31) and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and chrominance)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 08:53
S32	0	(S31) and ((determin\$5 or comput\$5 or calcul\$5 or identify\$3) near7 (luminance and crhominance)) same (input near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 08:53
S24	98	345/590.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 08:32
S23	167	345/592.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/02/10 08:32
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B. Parvin, J. Taylor, G. Cong

November 1998 **Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM)**Full text available: [pdf\(613.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper outlines the motivation, requirements, and architecture of a collaborative framework for distributed virtual microscopy. In this context, the requirements are specified in terms of (1) functionality, (2) scalability, (3) interactivity, and (4) safety and security. Functionality refers to what and how an instrument does something. Scalability refers to the number of instruments, vendor-specific desktop workstations, analysis programs, and collaborators that can be accessed. Interactivi ...

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# 1 [Status report of the graphic standards planning committee](#)

Computer Graphics staff

August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3


Full text available:  [pdf\(15.01 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#)

# 2 [Pareto-optimal formulations for cost versus colorimetric accuracy trade-offs in printer color management](#)

D. J. Littlewood, P. A. Drakopoulos, G. Subbarayan

April 2002 **ACM Transactions on Graphics (TOG)**, Volume 21 Issue 2

Full text available:  [pdf\(9.84 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Color management for the printing of digital images is a challenging task, due primarily to nonlinear ink-mixing behavior and the presence of redundant solutions for print devices with more than three inks. Algorithms for the conversion of image data to printer-specific format are typically designed to achieve a single predetermined rendering intent, such as colorimetric accuracy. In the present paper we present two CIELAB to CMYK color conversion schemes based on a general Pareto-optimal formul ...

**Keywords:** Artificial Neural Networks, CMYK, Color Conversion, Color Fidelity, Color Management, Color Matching, Color Printing, Color Space Transformation, Optimization, Pareto-optimization, Tetrahedral Interpolation

# 3 [An experimental comparison of RGB, YIQ, LAB, HSV, and opponent color models](#)

Michael W. Schwarz, William B. Cowan, John C. Beatty

April 1987 **ACM Transactions on Graphics (TOG)**, Volume 6 Issue 2

Full text available:  [pdf\(2.44 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The increasing availability of affordable color raster graphics displays has made it important to develop a better understanding of how color can be used effectively in an interactive environment. Most contemporary graphics displays offer a choice of some 16 million colors; the user's problem is to find the right color. Folklore has it that the RGB color space arising naturally from color display hardware is user-hostile and that other color models such as the HS ...

# 4 [Supporting efficient multimedia database exploration](#)

Wen-Syan Li, K.Selçuk Candan, Kyoji Hirata, Yoshinori Hara

April 2001 **The VLDB Journal - The International Journal on Very Large Data Bases**, Volume 9 Issue 4

Full text available:  [pdf\(569.30 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Due to the fuzziness of query specification and media matching, multimedia retrieval is conducted by way of exploration. It is essential to provide feedback so that users can visualize query reformulation alternatives and database content distribution. Since media matching is an expensive task, another issue is how to efficiently support exploration so that the system is not overloaded by perpetual query reformulation. In this paper, we present a uniform framework to represent statistical inform ...

**Keywords:** Exploration, Human computer interaction, Multimedia database, Progressive processing, Query relaxation, Selectivity statistics

5 Accelerating time-varying hardware volume rendering using TSP trees and color-based error metrics

David Ellsworth, Ling-Jen Chiang, Han-Wei Shen

October 2000 **Proceedings of the 2000 IEEE symposium on Volume visualization**

Full text available:  pdf(305.84 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** graphics hardware, scalar field visualization, time-varying fields, volume rendering, volume visualization

6 Music and Games: Automating Lighting Design for Interactive Entertainment

Magy Seif El-Nasr, Ian Horswill

April 2004 **Computers in Entertainment (CIE)**, Volume 2 Issue 2

Full text available:  pdf(199.80 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Recent advances in computer graphics, particularly in real-time rendering, have resulted in major improvements in 3D graphics and rendering techniques in interactive entertainment. In this article we focus on the scene-lighting process, which we define as configuring the number of lights in a scene, their properties (e.g., range and attenuation), positions, angles, and colors. Lighting design is well known among designers, directors, and visual artists for its vital role in influencing viewers' ...

**Keywords:** 3-D simulations, Interactive entertainment, game design, game development, immersive environments, lighting design, visual compositing, visual design

7 Comparative analysis of the quantization of color spaces on the basis of the CIELAB color-difference formula

B. Hill, Th. Roger, F. W. Vorhagen

April 1997 **ACM Transactions on Graphics (TOG)**, Volume 16 Issue 2

Full text available:  pdf(5.16 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article discusses the CIELAB color space within the limits of optimal colors including the complete volume of object colors. A graphical representation of this color space is composed of planes of constant lightness  $L^*$  with a net of lines parallel to the  $a^*$  and  $b^*$  axes. This uniform net is projected onto a number of other color spaces (CIE XYZ, tristimulus RGB, predistorted RGB, and YCC color space) to demonstrate and study the structure ...

**Keywords:** CIE XYZ, CIELAB, CIELAB color space, CIELUV, Chromaticity, YCC, color difference perception, color quantization, color spaces, dye sublimation printer, match print, optimal colors

8 Spatiotemporal sensitivity and visual attention for efficient rendering of dynamic environments

Hector Yee, Sumanita Pattanaik, Donald P. Greenberg

January 2001 **ACM Transactions on Graphics (TOG)**, Volume 20 Issue 1

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

We present a method to accelerate global illumination computation in prerendered animations by taking advantage of limitations of the human visual system. A spatiotemporal error tolerance map, constructed from psychophysical data based on velocity dependent contrast sensitivity, is used to accelerate rendering. The error map is augmented by a model of visual attention in order to account for the tracking behavior of the eye. Perceptual acceleration combined with good sampling protocols prov ...

9 High-speed visual estimation using preattentive processing

Christopher G. Healey, Kellogg S. Booth, James T. Enns

June 1996 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 3 Issue 2

Full text available:  pdf(1.20 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A new method is presented for performing rapid and accurate numerical estimation. The method is derived from an area of human cognitive psychology called preattentive processing. Preattentive processing refers to an initial organization of the visual field based on cognitive operations believed to be rapid, automatic, and spatially parallel. Examples of visual features that can be detected in this way include hue, intensity, orientation, size, and motion. We believe that studies from preatt ...

**Keywords:** Munsell, boundary detection, cognitive psychology, color, estimation, human vision, icon, multidimensional data, orientation, preattentive, scientific visualization, target detection

10 Camera management: Adaptive visual object surveillance with continuously moving panning camera

Kam-Yiu Lam, Calvin K. H. Chiu

October 2004 **Proceedings of the ACM 2nd international workshop on Video surveillance & sensor networks**

Full text available:  pdf(454.18 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we study the important issues in the design of an efficient wireless visual surveillance system (WISE) in which a continuously moving panning camera is installed to capture real-time status of objects in a monitoring environment. To minimize the object evaluation workload, we propose a predictive scheme for evaluation on detected visual objects based on the movement of the objects. Due to movement of panning camera, visual object evaluation jobs may not be able to be performed ...

**Keywords:** job scheduling, resources allocation, visual surveillance

11 Image Categorization by Learning and Reasoning with Regions

Yixin Chen, James Z. Wang

December 2004 **The Journal of Machine Learning Research**, Volume 5

Full text available:  pdf(1.31 MB)

Additional Information: [full citation](#), [abstract](#)

Designing computer programs to automatically categorize images using low-level features is a challenging research topic in computer vision. In this paper, we present a new learning technique, which extends Multiple-Instance Learning (MIL), and its application to the problem of region-based image categorization. Images are viewed as bags, each of which contains a number of instances corresponding to regions obtained from image segmentation. The standard MIL problem assumes that a bag is labeled p ...

12 A model of multimedia information retrieval

Carlo Meghini, Fabrizio Sebastiani, Umberto Straccia

September 2001 **Journal of the ACM (JACM)**, Volume 48 Issue 5

Full text available:  pdf(5.69 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Research on multimedia information retrieval (MIR) has recently witnessed a booming interest. A prominent feature of this research trend is its simultaneous but independent




materialization within several fields of computer science. The resulting richness of paradigms, methods and systems may, on the long run, result in a fragmentation of efforts and slow down progress. The primary goal of this study is to promote an integration of methods and techniques for MIR by contributing a conceptual model ...

**Keywords:** Description logics, fuzzy logics, multimedia information retrieval

13 WALRUS: a similarity retrieval algorithm for image databases

Apostol Natsev, Rajeev Rastogi, Kyuseok Shim

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data**, Volume 28 Issue 2

Full text available:  pdf(1.63 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Traditional approaches for content-based image querying typically compute a single signature for each image based on color histograms, texture, wavelet tranforms etc., and return as the query result, images whose signatures are closest to the signature of the query image. Therefore, most traditional methods break down when images contain similar objects that are scaled differently or at different locations, or only certain regions of the image match. In this paper ...

14 Achieving color uniformity across multi-projector displays

Aditi Majumder, Zhu He, Herman Towles, Greg Welch

October 2000 **Proceedings of the conference on Visualization '00**

Full text available:  pdf(181.02 KB) Additional Information: [full citation](#), [citations](#), [index terms](#)

**Keywords:** color calibration, large area display, projector graphics, tiled displays

15 Image-driven simplification

Peter Lindstrom, Greg Turk

July 2000 **ACM Transactions on Graphics (TOG)**, Volume 19 Issue 3

Full text available:  pdf(1.98 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We introduce the notion of image-driven simplification, a framework that uses images to decide which portions of a model to simplify. This is a departure from approaches that make polygonal simplification decisions based on geometry. As with many methods, we use the edge collapse operator to make incremental changes to a model. Unique to our approach, however, is the use of comparisons between images of the original model against those of a simplified model to determine the ...

**Keywords:** image metrics, level-of-detail, polygonal simplification, visual perception

16 Video parsing, retrieval and browsing: an integrated and content-based solution

H. J. Zhang, C. Y. Low, S. W. Smoliar, J. H. Wu

January 1995 **Proceedings of the third ACM international conference on Multimedia**

Full text available:  htm(51.17 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** database, multimedia, video browsing, video indexing, video parsing, video retrieval

17 Precision requirements for digital color reproduction

Mike Stokes, Mark D. Fairchild, Roy S. Berns

October 1992 **ACM Transactions on Graphics (TOG)**, Volume 11 Issue 4

An environment was established to perform device-independent color reproduction of full-color pictorial images. In order to determine the required precision for this environment, an experiment was performed to psychophysically measure colorimetric tolerances for six images using paired comparison techniques. These images were manipulated using 10 linear and nonlinear functions in the CIELAB dimensions of lightness, chroma, and hue angle. Perceptibility tolerances were determined using probi ...

**Keywords:** color, color correction, color reproduction, color science, image science

#### 18 On the potential of tolerant region reuse for multimedia applications

Carlos Álvarez, Jesús Corbal, Esther Salami, Mateo Valero

June 2001 **Proceedings of the 15th international conference on Supercomputing**

Full text available:  [pdf\(245.54 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


The recent years have shown an interesting evolution in the mid-end to low-end embedded domain. Portable systems are growing in importance as they improve in storage capacity and in interaction capabilities with general purpose systems. Furthermore, media processing is changing the view embedded processors are designed, keeping in mind the emergence of new application domains such as those for PDA systems or for the third generation of mobile digital phones (UMTS).

The performance req ...

#### 19 A rendering algorithm for visualizing 3D scalar fields

Paolo Sabella

June 1988 **ACM SIGGRAPH Computer Graphics , Proceedings of the 15th annual conference on Computer graphics and interactive techniques**, Volume 22 Issue 4

Full text available:  [pdf\(3.86 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a ray tracing algorithm for rendering 3D scalar fields. An illumination model is developed in which the field is characterized as a varying density emitter with a single level of scattering. This model is equivalent to a particle system in which the particles are sufficiently small. Along each ray cast from the eye, the field is expressed as a function of the ray parameter. The algorithm computes properties of the field along the ray such as the attenuated intensity, the peak ...

**Keywords:** 3D image, light scattering, ray tracing, thresholding

#### 20 Display: Feature congestion: a measure of display clutter

Ruth Rosenholtz, Yuanzhen Li, Jonathan Mansfield, Zhenlan Jin

April 2005 **Proceeding of the SIGCHI conference on Human factors in computing systems**

Full text available:  [pdf\(419.86 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Management of clutter is an important factor in the design of user interfaces and information visualizations, allowing improved usability and aesthetics. However, clutter is not a well defined concept. In this paper, we present the Feature Congestion measure of display clutter. This measure is based upon extensive modeling of the saliency of elements of a display, and upon a new operational definition of clutter. The current implementation is based upon two features: color and luminance contrast ...

**Keywords:** clutter, display design, feature congestion, information density, recommender systems, visual interfaces, visualization

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15.	<u>2003 - 179769</u>	METHOD, DEVICE AND PROGRAM FOR PROCESSING IMAGE AND RECORDING MEDIUM WITH IMAGE PROCESSING PROGRAM RECORDED THEREON
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- 1 Scene change detector and method thereof**  
Inventor: KIM MOON-CHEOL (KR)      Applicant: SAMSUNG ELECTRONICS CO LTD (KR)  
EC: H04N5/14S; H04N9/64E      IPC: H04N5/14; H04N9/64  
Publication info: **US2004008284** - 2004-01-15
- 2 CHROMA KEY DEVICE**  
Inventor: KATAYAMA YOSHIKAZU; MISU TOSHIHIKO;      Applicant: JAPAN BROADCASTING CORP  
(+3)  
EC:      IPC: H04N9/75  
Publication info: **JP2004015520** - 2004-01-15
- 3 Method of displaying signal obtained by measuring probe and device therefor**  
Inventor: TAKADA HAJIME (JP); SUGIMOTO RYOUICHI      Applicant: KAWASAKI STEEL CO (JP)  
(JP); (+1)  
EC:      IPC: G01N27/82; G01N29/04; (+1)  
Publication info: **US6777931** - 2004-08-17
- 4 Method for color detection in video images**  
Inventor: CLASSEN BRIAN J (CA); CHRISTOFF JORDAN      Applicant: FLEXI COIL LTD (CA)  
C (US)  
EC: H04N9/64C      IPC: G06K9/00  
Publication info: **US6574363** - 2003-06-03
- 5 METHOD FOR COLOR DETECTION IN VIDEO IMAGES**  
Inventor: CLASSEN BRIAN J; CHRISTOFF JORDAN C      Applicant: FLEXI COIL LTD (CA)  
EC: H04N9/64C      IPC: H04N9/64  
Publication info: **WO0030362** - 2000-05-25
- 6 Reducing granularity in highlights and yellow fields by plane-dependent tables, in device-state error diffusion**  
Inventor: LI GUO (US); BOCKMAN FRANCIS E (US)      Applicant: HEWLETT PACKARD CO (US)  
EC: B41J2/21D; H04N1/52      IPC: B41J2/21; B41J29/393  
Publication info: **US6260948** - 2001-07-17
- 7 IMAGE PROCESSOR**  
Inventor: HIROSE YOSHITSUGU      Applicant: FUJI XEROX CO LTD  
EC:      IPC: H04N1/60; B41J2/525; (+4)  
Publication info: **JP2000287094** - 2000-10-13
- 8 IMAGE PROCESSOR**  
Inventor: TAKANO TAKESHI; SUGANO HIROKI      Applicant: TOKYO SHIBAURA ELECTRIC CO  
EC:      IPC: H04N1/405; B41J2/52  
Publication info: **JP2000188684** - 2000-07-04
- 9 METHOD AND DEVICE FOR COMPRESSING COLOR REPRODUCING AREA**  
Inventor: ARAI YOSHIFUMI      Applicant: TOYO INK MFG CO  
EC:      IPC: H04N1/60; G06T1/00; (+1)  
Publication info: **JP2000165687** - 2000-06-16
- 10 PICTURE PROCESSOR**  
Inventor: HIROSE YOSHITSUGU      Applicant: FUJI XEROX CO LTD  
EC:      IPC: H04N1/60; G06T5/00; (+3)  
Publication info: **JP2000115557** - 2000-04-21

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### 1 Color vision deficiency screening test resistant to display calibration errors

Inventor: SACHTLER WENDELIN L (AU)

Applicant:

EC:

IPC: A61B3/02

Publication info: **US2005036112** - 2005-02-17

### 2 Color vision deficiency screening test resistant to display calibration errors

Inventor: SACHTLER WENDELIN L (AU)

Applicant: MASSACHUSETTS INST TECHNOLOGY (US)

EC:

IPC: A61B3/02; A61B3/00

Publication info: **US6851809** - 2005-02-08

### 3 Method and apparatus for testing the quality of reclaimable waste paper matter containing contaminants

Inventor: BEDARD PIERRE (CA); DING FENG (CA);  
(+2)

Applicant:

EC: G01N21/27; G01N21/88P; (+3)

IPC: G06K9/00

Publication info: **US2004151361** - 2004-08-05

### 4 COLOR ENHANCEMENT METHOD

Inventor: CLASSEN BRIAN J; CHRISTOFF JORDAN C

Applicant: FLEXI COIL LTD (CA)

EC:

IPC: H04N9/73; H04N5/235

Publication info: **WO0030365** - 2000-05-25

### 5 Luminance-based color resolution enhancement

Inventor: BENEAR RICHARD (US); NOTTINGHAM JAMES R (US)

Applicant: HEWLETT PACKARD CO (US)

EC: H04N1/409B; H04N1/58

IPC: H04N1/40; H04N1/403

Publication info: **EP0881822** - 1998-12-02

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## 1 Multimodal people ID for a multimedia meeting browser

Jie Yang, Xiaojin Zhu, Ralph Gross, John Kominek, Yue Pan, Alex Waibel

October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1)**

Full text available: [pdf\(1.73 MB\)](#)

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A meeting browser is a system that allows users to review a multimedia meeting record from a variety of indexing methods. Identification of meeting participants is essential for creating such a multimedia meeting record. Moreover, knowing who is speaking can enhance the performance of speech recognition and indexing meeting transcription. In this paper, we present an approach that identifies meeting participants by fusing multimodal inputs. We use face ID, speaker ID, color appearance ID, a ...

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